

\* \* \* \* \*  
FILE 'USPAT' ENTERED AT 09:01:30 ON 02 JUL 1999

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\* U. S. P A T E N T T E X T F I L E \*  
\* \*  
\* THE WEEKLY PATENT TEXT AND IMAGE DATA IS CURRENT \*  
\* THROUGH June 29,1999. \*  
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\* \*  
\* \* \* \* \*

=> s drill string

39127 DRILL  
58692 STRING  
L1 6548 DRILL STRING  
(DRILL(W)STRING)

=> s computer

L2 233918 COMPUTER

=> s sensor

L3 221228 SENSOR

=> s l1 and l2 and l3

L4 282 L1 AND L2 AND L3

=> s l4 and 175/clas

21226 175/CLAS  
L5 131 L4 AND 175/CLAS

=> s l5 and revers?

470862 REVERS?  
L6 44 L5 AND REVERS?

=> s l6 and angle

573950 ANGLE  
L7 33 L6 AND ANGLE

=> s l7 and oscill?

201255 OSCILL?  
L8 7 L7 AND OSCILL?

=> set high on

SET COMMAND COMPLETED

=> s l8 and (revers? or oscill?)

470862 REVERS?  
201255 OSCILL?